46. A network device, comprising:

a plurality of ports capable of being connected to external physical network attachments and capable of being programmed as test ports or working ports.

- 46. The network device of claim 45, wherein the physical layer subsystem transfers network data in accordance with SONET protocol.
- 47. The network device of claim 45, wherein at least one of the plurality of ports is programmed as a test port and at least one of the plurality of ports is programmed as a working port and the physical layer subsystem further includes:

a cross-connection subsystem for multicasting network data to the test port and the working port.

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- 48. The network device of claim 47, wherein the test port is a first test port and another one of the plurality of ports is programmed as a second test port and wherein the cross-connection subsystem is capable of multicasting the network data to the working port, the first test port and the second test port.
- 49. The network device of claim 47, wherein the working port is a first working port and another one of the plurality of ports is programmed as a second working port and wherein the cross-connection subsystem is capable of transferring the network data between the first and second working ports and for multicasting the network data to the test port.
- 50. The network device of claim 45, wherein at least one of the plurality of ports is programmed as a working port and at least one of the plurality of ports is programmed as a test port and the physical layer subsystem further includes:

a cross-connection subsystem for transferring the network data from the test port to the working port.

5/. A network device, comprising:

a physical layer subsystem including a plurality of ports capable of being connected to physical network attachments, wherein the plurality of ports include at least one working port and at least one test port; and

a cross-connection subsystem coupled to the physical layer subsystem and capable of being programmed to transfer the network data to the working port and to the test port.

52. A network device, comprising:

a physical layer subsystem including a plurality of ports; and

a cross-connect subsystem coupled to the physical layer subsystem and capable of being configured to implement at least one of the plurality of ports as a working port and at least another of the plurality of ports as a test port.

53. The network device of claim 52, wherein the cross-connect subsystem is capable of multicasting network data to the working port and the test port.

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